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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Ulrich Neumann et al.      Art Unit: 2672  
Serial No.: 10/676,377      Examiner: Eric V. Woods  
Filed : September 30, 2003  
Title : AUGMENTED VIRTUAL ENVIRONMENTS

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Applicants call attention to the attached Information Disclosure Statement and documents listed on form PTO-1449.

Kindly accept this Information Disclosure Statement under Rule 97(c)(2). The rule 17(p) certification fee of \$180 is enclosed.

The documents are in the English language; hence no concise explanation is necessary per Rule 98(a)(3).

Consideration of the foregoing and enclosures plus the return of a copy of the enclosed form PTO-1449 with the Examiner's initials in the left column per MPEP 609 are earnestly solicited along with an early action on the merits.

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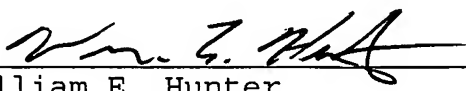
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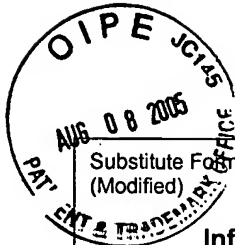
Respectfully submitted,

Date: 08/04/05

  
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Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 06666-156001	Application No. 10/676,377
	Applicant Ulrich Neumann et al.		
	Filing Date September 30, 2003	Group Art Unit 2672	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AC							
	AD							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AE	"Design and simulation of opera lighting and projection effects" Julie O'B. Dorsey et al., ACM SIGGRAPH Computer Graphics, Proceedings of the 19 <sup>th</sup> annual conference on Computer graphics and interactive techniques, Volume 25, Issue 4, July 1991
	AF	"Fast shows and lighting effects using texture mapping" Mark Segal et al., Computer Graphics (SIGGRAPH '92 proceedings), pages 249-252, July 1992
	AG	"Merging virtual objects with the real world" seeing ultrasound imagery within the patient", Bajura et al., ACM SIGGRAPH Computer Graphics, 1992
	AH	"Modeling and rendering architecture for photographs: a hybrid geometry-and image-based approach", Paul E. Debevec et al., Proceedings of the 23 <sup>rd</sup> annual conference on Computer graphics and interactive techniques, August 1996
	AI	"Technologies for augmented reality systems: realizing ultrasound-guided needle biopsies", Andrei State et al., Proceedings of the 23 <sup>rd</sup> annual conference on Computer graphics and interactive techniques, August 1996
	AJ	"MURI project - Rapid and affordable generation on terrain and detailed urban feature data", Purdue Leading URL <a href="http://www.ecn.purdue.edu/MURI/">http://www.ecn.purdue.edu/MURI/</a> , September 1996 - September 2001
	AK	"MURI project - Rapid and affordable generation of terrain and detailed urban feature data", <a href="http://www.ecn.purdue.edu/MURI/present.html">http://www.ecn.purdue.edu/MURI/present.html</a> , September 1996- September 2001
	AL	"VSAM IFD Web Presentation", <a href="http://www-2.cs.cmu.edu/~vsam/Web2000/index.html">http://www-2.cs.cmu.edu/~vsam/Web2000/index.html</a> , 1997-1999
	AM	"Cooperative Multi-Sensor Video Surveillance", Kanade et al., DARPA Image Understanding Workshop (IUW), New Orleans, LA, pp. 3-10, May 1997
	AN	"Texture mapping 3D models of real-world scenes", Frederick M. Weinhaus et al., ACM Computing Surveys (CSUR), Volume 29, Issue 4, December 1997
	AO	"Silicon Graphics Witches Brew UAV", Angus Dorbie, Silicon Graphics, Inc., <a href="http://www.sgi.com/products/software/performer/brew/pdfs/uav.pdf">http://www.sgi.com/products/software/performer/brew/pdfs/uav.pdf</a> , 1997
	AP	"Windows on the World: An example of Augmented Virtuality", Kristian T. Simsarian et al., Interfaces: Man-Machine Interaction, Montpellier 1997

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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	AQ	"Using live video to represent remote users in collaborative virtual environment" Fang Wang, Technical Report, Electronic Visualization Laboratories, The University of Illinois at Chicago, (URL <a href="http://www.ev1.uic.edu/fwang/video.html">http://www.ev1.uic.edu/fwang/video.html</a> ), April 10, 1998
	AR	"Augmented Virtuality: A method to automatically augment virtual worlds with video images" - MS Thesis, Karl-Petter Akesson et al., (URL: <a href="http://www.sics.se/~kalle/projects/Master_Thesis/index.html">http://www.sics.se/~kalle/projects/Master_Thesis/index.html</a> ), April 20, 1998
	AS	"The office of the future: a unified approach to image-based modeling and spatially immersive displays", Ramesh Raskar et al., Proceedings of the 25 <sup>th</sup> annual conference on Computer graphics and interactive techniques, July 1998
	AT	"Understanding and constructing shared spaces with mixed-reality boundaries", Steve Benford et al., ACM Transactions on Computer-Human Interaction (TOCHI) Volume 5, Issue 3, September 1998
	AU	"Image-based object representation by layered imposters", Schaufler Gernot, Proceedings of the ACM symposium on Virtual reality software and technology, November 1998
	AV	"SGI Open Performer White Paper- UAV", <a href="http://www.sgi.com/products/software/performer/whitepapers.html">http://www.sgi.com/products/software/performer/whitepapers.html</a> , November 10, 1998
	AW	"Advances in Cooperative Multi-Sensor Video Surveillance", Kanade et al., DARPA Image Understanding Workshop (IUW), Monterey, CA, pp. 3-24, November 1998
	AX	"A System for Video Surveillance and Monitoring", Collins et al., Proceedings of American Nuclear Society (ANS) eighth international topical meeting on robotics and remote systems, Pittsburgh, PA, April 25-29, 1999
	AY	"Augmented Reality in Multi-camera Surveillance", Sequeira et al., Proceedings of the 21 <sup>st</sup> ESARDA symposium on safeguards and nuclear material management, pp. 661-666, Sevilla, Spain, May 4-6, 1999
	AZ	"Virtual Postman-Real-Time, Interactive Virtual Video", Alan J. Lipton, IASTED CGIM '99, October 1999
	AAA	"Automatic modeling of a 3D city map from real-world video", Hiroshi Kawasaki et al., Proceedings of the seventh ACM international conference on Multimedia (Part 1), October 1999
	ABB	"Immersive teleconferencing: a new algorithm to generate seamless panoramic video imagery", Aditi Majumder et al., Proceedings of the seventh ACM international conference on Multimedia (Part 1), October 1999
	ACC	"Reality Portals", Karl-Petter Akesson et al., Proceedings of the ACM symposium on Virtual reality software and technology, December 1999
	ADD	"A video-based virtual reality system", Haruo Takeda et al., Proceedings of the ACM symposium on Virtual reality software and technology, December 1999
	AEE	"Multi-layered imposters for accelerated rendering", Xavier Decoret et al., EUROGRAPHICS '99, P. Burunet and R. Scopigno, Volume 18, Number 3, 1999
	AFF	"Video textures", Arno Sch et al., Siggraph Proceedings of the 27 <sup>th</sup> annual conference on Computer graphics and interactive techniques 2000
	AGG	"Toward human-robot collaboration" Kristian T. Simsarian PhD Thesis, Computational Vision on Active Perception Lab (CVAP) Swedish Institute of Computer Science (SICS) <a href="http://media.lib.kth.se/dissengrefhit.asp?dissnr=2941">http://media.lib.kth.se/dissengrefhit.asp?dissnr=2941</a> , March 2000
	AHH	"Traversable interfaces between real and virtual worlds" Borianna Koleva et al., Proceedings of the SIGCHI conference on Human factors in computing systems, April 2000

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	AII	"A system for video surveillance and monitoring: VSAM final report", Collins et al., Technical report CMU-RI-00-12, Robotics Institute, Carnegie Mellon University, May 2000
	AJJ	"Presentations from May 10, 2000 Review at BAE San Diego", BAE Systems, Visualization Research (js1.pdf) Capabilities of the VESPER System
	AKK	"Photogrammetry using 3D graphics and projective Textures", J. Spann et al., 19 <sup>th</sup> ISPRS Congress, Amsterdam, July 2000
	ALL	"Relief texture mapping", Manuel M. Oliveira et al., Proceedings of the 27 <sup>th</sup> annual conference on Computer graphics and interactive techniques, July 2000
	AMM	"A video-based rendering acceleration algorithm for interactive walkthroughs", Andrew Wilson et al., Proceedings of the eight ACM international conference on Multimedia, October 2000
	ANN	"Rapid modeling of animated faces from video images", Zicheng Liu et al., Proceedings of the eighth ACM international conference on Multimedia, October 2000
	AOO	Video Surveillance and Monitoring Homepage - CMU leading URL <a href="http://www-2.cs.cmu.edu/~vsam/vsamhome.html">http://www-2.cs.cmu.edu/~vsam/vsamhome.html</a> , Carnegie Mellon University, Robotics Institute, 2000
	APP	"Adaptive unwrapping for interactive texture painting", Takeo Igarashi et al., Proceedings of the 2001 symposium on Interactive 3D graphics, March 2001
	AQQ	"Online model reconstruction for interactive virtual environments", Benjamin Lok, Proceedings of the 2001 symposium of Interactive 3D graphics, March 2001
	ARR	"Exploiting Video: Spatially-encoded far-field representations for interactive walkthroughs", Andrew Wilson et al., Proceedings of the ninth ACM international conference on Multimedia, October 2001
	ASS	"Rapid and affordable generation of terrain and detailed urban feature data", Edward M. Mikhail, Sixth interim progress report" Final report, <a href="http://www.ecn.purdue.edu/muri/6_rep_all.pdf">http://www.ecn.purdue.edu/muri/6_rep_all.pdf</a> , March 2002

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